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TECHNIQUE FOR ESTIMATING RAINFALL FROM A METEOROLOGICAL RADAR WITH POLARISATION DIVERSITY

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Process for estimating a precipitation rate by means of a bipolar radar, characterized by the following various steps:the differential phase [Phi]dp and the attenuated reflectivity Z according to at least one of the polarizations H or V are measured by means of said bipolar radar, over a given interval [r1, r0] of path radius r with respect to said radar; an estimate of the value K(r0) of the attenuation at r0 is determined from the attenuated reflectivity profile thus measured, as well as from the difference in the differential phase between r0 and r1; an estimate K (r) of the specific attenuation at r as a function of the attenuation K(r0) thus determined and of the attenuated reflectivity profile Z(r) is determined; the rate of precipitation R(r) is determined knowing K (r).